STRUCTURE OF MICROCARD

A01/1 = Structure of microcard
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A04/1 = Safety measures
A05/1 = Testers and tools
A06/1 = Incoming inspection
A11/1 = Wiring diagram
A12/1 = Table of contents
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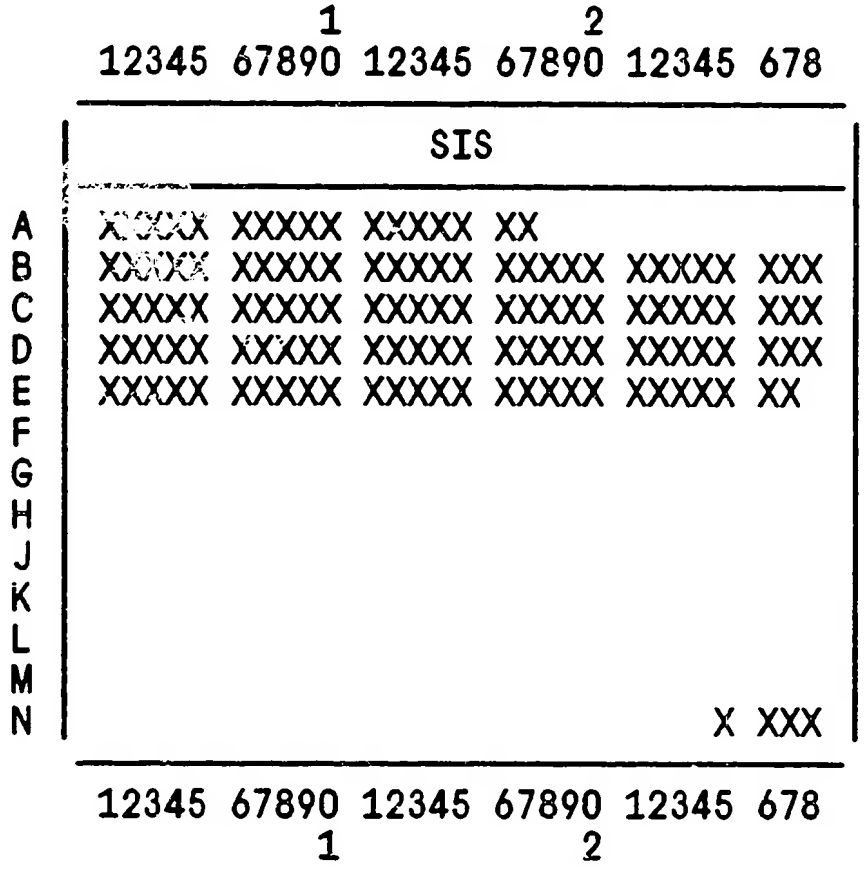
Continue: A02/1 Fig.: A01/2



Continue: A02/1

STRUCTURE OF MICROCARD

The user prompting appears on every page, e.g.
– Continue: B17/1
– Continue: B17/1 Fig.: B17/2

.../1 = upper coordinate half
.../2 = lower coordinate half

Continue: A02/2

SPECIAL FEATURES

These test instructions apply to VE..E.. distributor-type pumps 0 460 4.. with HDK-sensor (half-differential eddy-current travel sensor).

These instructions are designed to supplement the following sections of the test instructions on W 400/018:
* Special features
* Safety measures
* Testers and tools
* Incoming inspection (electrical test)
* Wiring diagram (electrical system)

Continue: A03/1

SPECIAL FEATURES

For
* DI distributor-type pumps pay additional attention to test instructions on W 400/044.

Continue: A03/2

SPECIAL FEATURES

The adjuster with HDK-sensor differs as follows from the old adjuster with control-collar travel sensor (SWG, potentiometer):
* Labeling -HDK- on ELAB end of adjuster housing
* HDK sensor installed in place of control-collar travel sensor (SWG, potentiometer)

Testing of the fuel-injection pump additionally requires use of the ballast EPS 910.

Continue: A04/1

SAFETY MEASURES

Utmost cleanliness is to be ensured when working on the injected-quantity adjuster. Never touch nor clean the HDK sensor.
The use of cleaning agents is not permitted.

Exclusive use must be made as regards connection of the injected-quantity adjuster to the ballast EPS 910 of the pump-specific test line.

Continue: A04/2

SAFETY MEASURES

Non-observance can result in the following:

* Different material for the respective contacts (injected-quantity adjuster plug/adaption plug) can cause contamination of surface of contact. Malfunctioning of the injected-quantity adjuster can then not be precluded.
* Despite the same plug housings the contact assignment may be different and thus produce incorrect actuation by the tester. Damage to tester and injected-quantity adjuster may then result.

Continue: A05/1

TESTERS AND TOOLS

Ballast EPS 910	0 687 022 281
Test line, injected-quantity adjuster	see test spec. sheet
Test line, solenoid valve, start of injection	see test spec. sheet

Continue: A05/2

TESTERS AND TOOLS

Adapter leads	see tool catalog
or	
Test cables from test cable set	1 687 011 208
Socket wrench	0 986 612 605

Continue: A06/1

INCOMING INSPECTION
Electrical test, injected-quantity adjuster

Test the following sub-components:

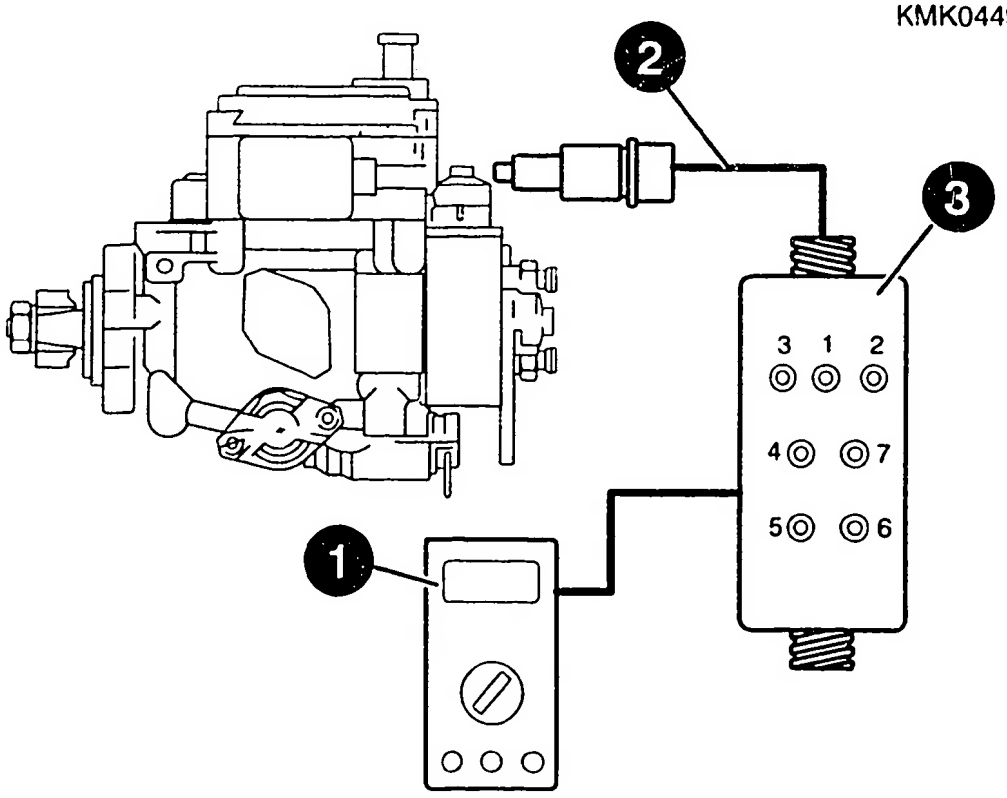
* Adjuster
* HDK-sensor
* Fuel temperature sensor

- Connect up test adapter KDEP 1165 (3) with adapter lead KDEP 1165/.. (2) or
- test cable

to fuel-injection pump.

Continue: A07/1 Fig.: A06/2

KMK04494



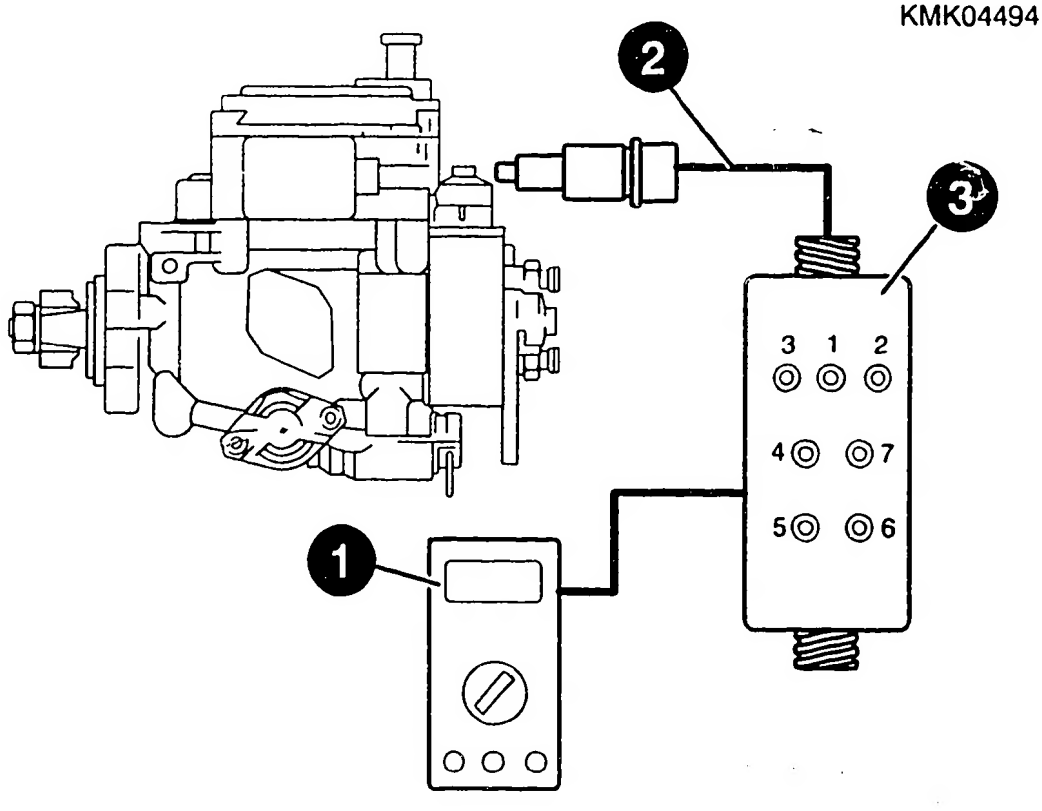
INCOMING INSPECTION
Electrical test, injected-quantity adjuster

Connect up multimeter (1):

Refer to test specification sheet for terminals and set values.

Perform repairs as per instructions if set values are not attained.

Continue: A08/1 Fig.: A07/2



INCOMING INSPECTION
Electrical test,
solenoid valve, start of injection

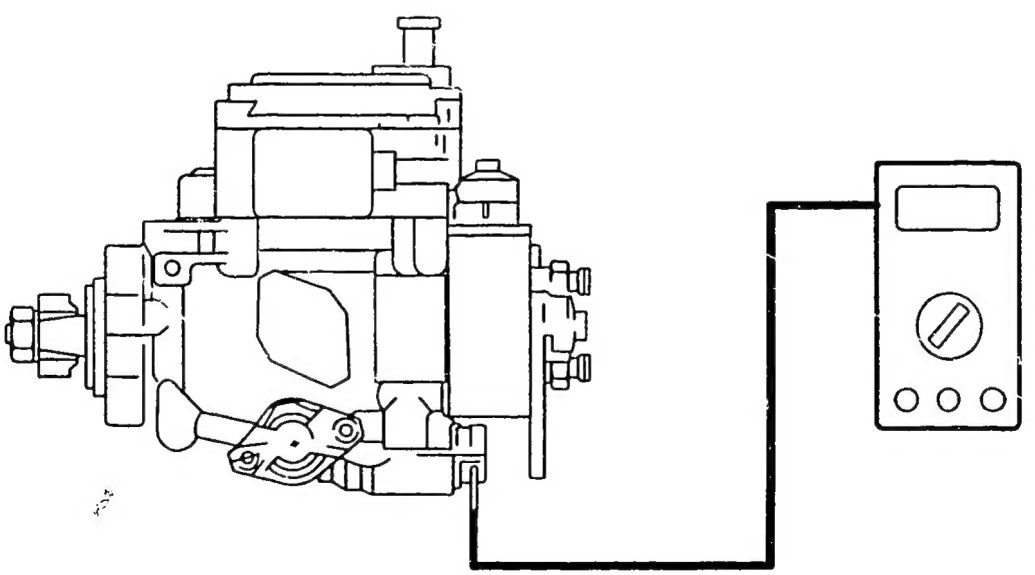
Use test cable to connect up
multimeter to solenoid valve.

Refer to test specification sheet
for terminals and set values.

Perform repairs as per instructions
if set values are not attained.

Continue: A09/1 Fig.: A08/2

KMK04495



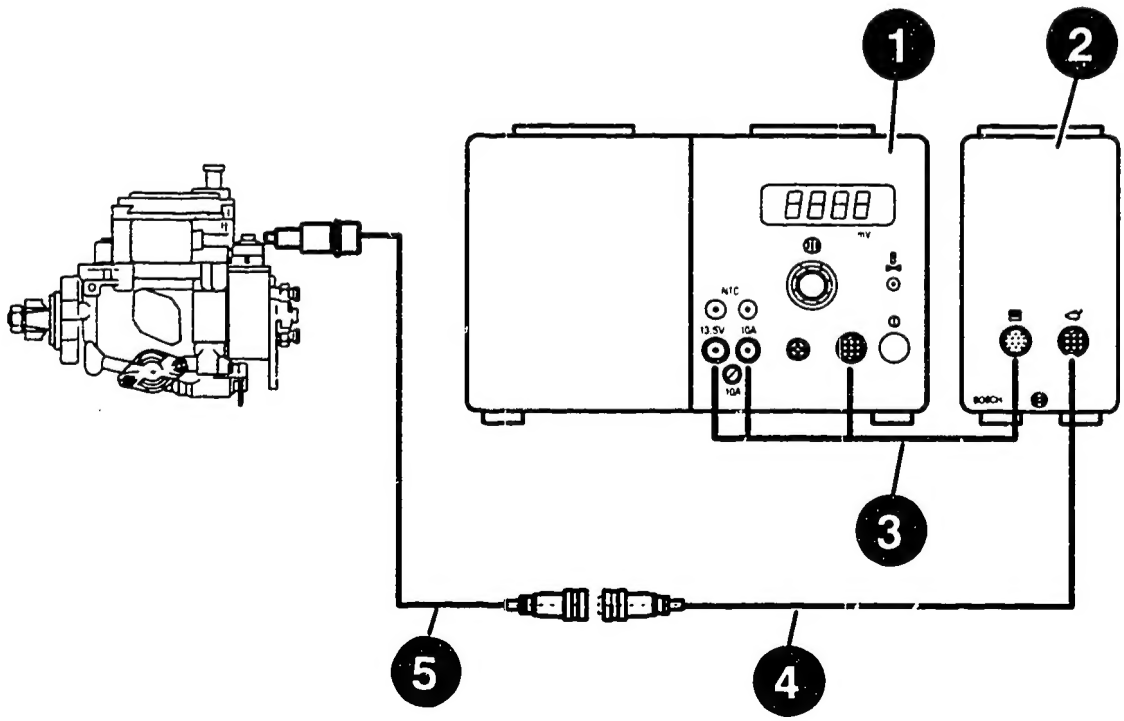
INCOMING INSPECTION
Electrical test, excess-fuel stop

Note:
(M u s t be heeded to avoid damaging adjuster).
The measurement time must not exceed 15 seconds.

Connect ballast EPS 910 (2) and tester EPS 865 (1) to supply and signal line (3).
Connect up fuel-injection pump with connecting line (4) and test line (5) to ballast EPS 910.

Continue: A10/1 Fig.: A09/2

KMK04496



INCOMING INSPECTION
Electrical test, excess-fuel stop

Adjust feedback voltage to maximum measured value. Read off feedback voltage.

Refer to test specification sheet for set value.

Continue: A10/2

INCOMING INSPECTION
Electrical test, shutoff stop

Adjust feedback voltage to minimum measured value. Read off feedback voltage.

Refer to test specification sheet for set value.

Perform repairs as per instructions if set values are not attained.

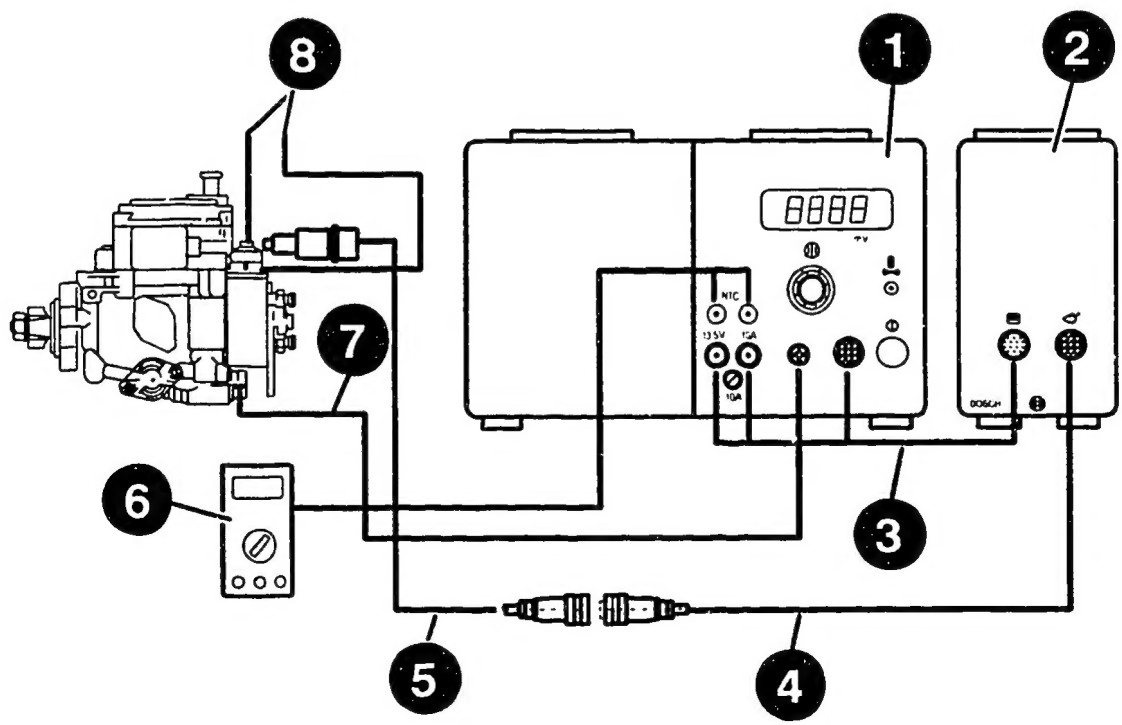
Continue: A11/1

WIRING DIAGRAM, ELECTRICAL SYSTEM

1 = Tester EPS 865
2 = Ballast EPS 910
3 = Supply and signal line
4 = Connecting line
5 = Test line, injected-quantity adjuster
6 = Multimeter
7 = Test line, solenoid valve, start of injection
8 = Power supply (ELAB)

Continue: A12/1 Fig.: A11/2

KMK04497



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Continue: A13/2

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Continue: A01/1